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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/821,764	04/09/2004	Donald DeMotte	16676	1442
50659	7590	03/29/2006	EXAMINER	
BUTZEL LONG DOCKETING DEPARTMENT 100 BLOOMFIELD HILLS PARKWAY SUITE 200 BLOOMFIELD HILLS, MI 48304			TRAN, KHOI H	
			ART UNIT	PAPER NUMBER
			3651	
DATE MAILED: 03/29/2006				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/821,764	Applicant(s) DEMOTTE ET AL.	
	Examiner Khoi H. Tran	Art Unit 3651	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 13 January 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) 3-8 and 13-18 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2,9-12,19 and 20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

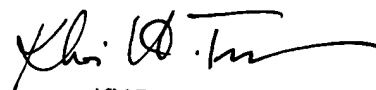
Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.



KHOI H. TRAN
PRIMARY EXAMINER

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1, 2, 9-12, 19, and 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Van Durrett et al. 5,501,571.

Van Durrett et al. '571 disclose a method for stacking cases on a pallet per claimed invention. The method comprises the steps of: supplying cases to a buffer 20 in a random order (column 1, lines 30-45); defining rules for selecting cases from the buffer 20 to be placed on respective pallet (full layer rule, height/weight rules for stability, and/or exception case rule); determining physical characteristics of cases in the buffer including dimensions of a case base and case height; determining available locations on the pallet where a case in the buffer can be placed (Figures 7-24); using physical characteristics of cases in the buffer and applying the rules to at least a portion of the buffer cases; identifying a selected buffer case that satisfies at least one of the rules and a corresponding position on the pallet for the selected case; and using an industrial robot 90 to place the selected case on the pallet at the corresponding position (Figures 7-24).

In regards to claim 2, Van Durrett et al. '571 method further comprises reapplying the previously determined rule (i.e. weight rule control loop) before applying another rule to a buffer case.

In regards to claim 9, Van Durrett et al. '571 method step of determining available positions on the pallet further comprises continually updating available regions on the pallet where a buffer case can be placed as cases are placed on the pallet; and continually replenishing the buffer 20 with cases after a buffer case is placed on the pallet (Figure 1A).

In regards to claim 10, Van Durrett et al. '571 method further comprises applying the rules sequentially in a variable prioritized order (i.e. heavy cases first) to at least a portion of the buffer cases and the available locations.

In regards to claim 11, Van Durrett et al. '571 method further comprises repeatedly applying the rules in a variable prioritized order to the buffer cases; repeatedly selecting for placement on the pallet a case that satisfies a rule; and repeatedly placing each case on the pallet in the corresponding location until the platform is filled with cases; supplying an unfilled pallet 99; and continually replenishing the buffer 20 with cases after a buffer case is placed on the pallet (Figure 1A).

In regards to claim 12, Van Durrett et al. '571 method further comprises reapplying the previously determined rule (i.e. weight rule control loop) before applying another rule to a buffer case.

In regards to claim 19, Van Durrett et al. '571 method step of determining available positions on the pallet further comprises continually updating available

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regions on the pallet where a buffer case can be placed as cases are placed on the pallet.

In regards to claim 20, Van Durrett et al. '571 method further comprises determining physical characteristics of at least one case in the pallet including known case height (height dimension of the case as it is being loaded on the pallet and the maximum allowable height for each layer of cases on the pallet); identifying a pallet cases having a case height equal to a case height of a selected buffer case and a corresponding position adjacent the one pallet case for the selected case; and using an industrial robot to place the selected case on the pallet (Figures 15, 21).

Response to Arguments

3. Applicant's arguments with respect to claims 1, 2, 9-12, 19, and 20 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory

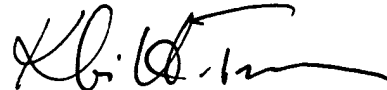
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action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khoi H. Tran whose telephone number is (571) 272-6919. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gene Crawford can be reached on (571) 272-6911. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Khoi H Tran
Primary Examiner
Art Unit 3651

KHT 03/24/2006